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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/677,146

09/30/2003

Terry M. Fletcher

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05/18/2007

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EXAMINER

FATAHI YAR, MAHMOUD

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

05/18/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/677,146

Applicant(s)

FLETCHER ET AL.

Examiner

Mike Fatahiyar

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1, 5-28 and 32-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 5-28 and 32-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 5-11, 13, 15-19, 23-24, 26, 28 and 32-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millman et al(6,476,800B2) in view of Aldrich et al(2003/0201990A1).

Millman et al disclose a method and an apparatus comprising a graphic controller having a processor(204), a frame buffer(206), a mechanism for detecting a change in a power source from AC to DC power or from DC power to AC power and accordingly adjusting the refresh rate and/or updating a display property if a policy exist for the power management event(i.e., decreasing or increasing the pixel clock rate; see column 3, lines 28-67; column 4, lines 1-41; columns 5-7). Millman et al substantially show all the features of the above claims except for the "display property comprising at least one of screen resolution or a pixel depth". However, Aldrich et al is cited to show that the concept of increasing or decreasing a screen resolution or the number of bits-per-pixel for each of the three primary colors" upon detection of a power mode/change signal is old(see abstract and paragraphs[0024 – 0032]. Thus, it would have been obvious to one of ordinary skill in the art to modify the system of Millman et al with the above noted teachings of Aldrich et al such that to increase or decrease a display resolution corresponding to a detection of a power change event , such as from DC to AC or vice

versa from AC to DC, because both references are related to updating a display property according to power changes for the purpose of power saving.

3. Claims 12, 14, 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millman et al and Aldrich et al as applied to claims 1, 10 and 23 above, and further in view of Brill et al (6,078,319).

Millman and Aldrich et al are discussed above. Brill et al is cited to show the relationship between resolution and/or pixel depth and the power supply in a computer system such that as the resolution and/or pixel depth of an image display increases the system would also increase the power supply higher and vice versa as the image display resolution and/or pixel depth decreases the system would also decrease the supplied power lower so that to save power consumption. Therefore, it would have been obvious to one of ordinary skill in the art to apply the above noted teachings of Brill et al to the modified system of Millman such that upon detection of a power supply change, for example, from AC power to DC power the processor decrease the pixel depth or vice versa upon detection of change from DC power to AC power the processor increase the pixel depth correspondingly because all the applied references are related to power saving for a computer display device.

4. Claims 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millman et al in view of Aldrich et al and Brill et al.

Claims 20-22 are also obvious to one of ordinary skill in the art for the reasons stated above in the paragraph 3.

5. Applicant's arguments with respect to claims 1, 5-28 and 32-36 have been considered but are moot in view of the new ground(s) of rejection.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miyamoto, Matsuura, Zhang et al, Nakanishi et al and Gschwind et al are made of record to show various types of power saving features control for a display device.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Fatahiyar whose telephone number is (571)272-7688. The examiner can normally be reached on Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MF  
May 12, 2007

M. Fatahiyar

  
RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
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